

- ☐ Drafts
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 - ☒ L1: (1799) Resonator same (VCO or (voltage adj controlled adj oscillator))
 - ☒ L2: (503401) (high adj frequency) or (high-frequency)
 - ☒ L3: (779) 1 and 2
 - ☒ L4: (88181) radar
 - ☒ L5: (90) 3 and 4
 - ☒ L6: (61) 5 and @ad<="20030314"
 - ☒ L7: (1054) 342/175
 - ☒ L8: (4286) ((342.175) or (342770-73) or (34289-103)).CCLLS.
 - ☒ L9: (2295) 8 and @ad<="20030314"
 - ☒ L10: (12) (US-20010026195-\$ or US-20040041668-\$).did. or (US-6714089-\$ or US-6
 - ☒ L11: (5) 10 and dielectric
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DB US-PGPUB:USPAT:USOCR

Default operator: ☐ OR

P. Highlight all hit times instantly

342/175
342/70-73
342/89-103

Structured form Custom form BRS form IS&R form Hits Details Image Text HTML

Document I	Lesson Da	Pages	Title	Inventor	Current O

	Search Terms	Total	USPAT	US-PGP APP	EPO	JPO	Derwa
1	342/100	98					
2	342/101	67					
3	342/102	91					
4	342/103	123					
5	342/175	760					
6	342/70	903					
7	342/71	386					
8	342/72	219					
9	342/73	47					

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Ready

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1799	Resonator same (VCO or (voltage adj controlled adj oscillator))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:15
L2	503401	(high adj frequency) or (high-frequency)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:15
L3	779	1 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:15
L4	88181	radar	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:15
L5	90	3 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:16
L6	61	5 and @ad<="20030314"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:32
L7	1054	342/175	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:29
L8	4286	((342/175) or (342/70-73) or (342/89-103)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/09 09:32

L9	2295	8 and @ad<="20030314"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:32
L10	12	(US-20010026195-\$ or US-20040041668-\$).did. or (US-6714089-\$ or US-6535072-\$ or US-6897735-\$ or US-6600381-\$ or US-6208214-\$ or US-5159346-\$ or US-5252981-\$).did. or (JP-2004282292-\$ or JP-2004138415-\$).did. or (EP-1458089-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/01/09 09:59
L11	5	10 and dielectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:59

SEARCH NOTES FOR EAST AND IEEE AND INSPEC AND IP.COM

SERIAL NUMBER

10757591

EAST SEARCH

EAST: search history attached

IEEE SEARCH

Search terms:

Resonator AND (VCO or (voltage AND controlled AND oscillator)) AND ((high adj frequency) or (high-frequency)) AND (radar or radio)

1. "Analysis on resonator coupling and its application to CMOS quadrature VCO at 8 GHz", Donghyun Baek; et al, Radio Frequency Integrated Circuits (RFIC) Symposium, 2003 IEEE 8-10 June 2003 P(s): 85-88

2. "20 GHz integrated CMOS frequency sources with a quadrature VCO using transformers", Sangsoo Ko; et al, Radio Frequency Integrated Circuits (RFIC) Symposium, 2004. Digest of Papers. IEEE 6-8 June 2004 P(s): 269-272

INSPEC SEARCH

Search history:

No.	Database	Search term	Info added since	Results	
1	INZZ	Resonator AND (VCO OR voltage AND controlled AND oscillator) AND (high ADJ frequency OR high-frequency) AND (radar OR radio)	unrestricted	5	

Inspec - 1969 to date (INZZ)

20 GHz integrated CMOS frequency sources with a quadrature VCO using transformers.

Source

2004 IEE *Radio Frequency* Integrated Circuits (RFIC) Systems. Digest of Papers (IEEE Cat. No.04CH37536), 2004, p. 269-72, 14 refs, pp. 720, ISBN: 0-7803-8333-8.

Publisher: IEEE, Piscataway, NJ, USA.

Author affiliation

Sangsoo Ko, Jeong-Geun Kim, Taeksang Song, Euisik Yoon, Songcheol Hong, Dept. of Electr. Eng. &

Comput. Sci., Korea Adv. Inst. of Sci. & Technol., Daejeon, South Korea.

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Analysis on resonator coupling and its application to CMOS quadrature VCO at 8 GHz.

Source

2003 IEEE *Radio Frequency* Integrated Circuits (RFIC) Symposium. Digest of Papers (Cat. No.03CH37410),

2003, p. 85-8, 8 refs, pp. xlii+727, ISBN: 0-7803-7694-3.

Publisher: IEEE, Piscataway, NJ, USA.

Author affiliation

Donghyun Baek, Taeksang Song, Sangsoo Ko, Euisik Yoon, Songcheol Hong, Dept. EECS, Korea Adv. Inst.

of Sci. & Technol., Daejeon, South Korea.

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Investigation of new-mode-type SAWs by procedures combined with finite-element and analytical method, and their applications for devices used in mobile communications.

Source

Electronics and Communications in Japan Part 2 (Electronics),

{Electron-Commun-Jpn-2-Electron-USA},

2001, vol. 84, no. 4, p. 49-58, 28 refs, CODEN: ECJEEJ, ISSN: 8756-663X.

Publisher: Scripta Technica, USA.

Author affiliation

Isobe, A., Hikita, M., Asai, K., Central Res. Lab., Hitachi Ltd., Kokubunji.

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Design of a low-phase noise VCO for an analog cellular portable radio application.

Source

Electronics and Communications in Japan Part 2 (Electronics),

{Electron-Commun-Jpn-2-Electron-USA},

March 1994, vol. 77, no. 3, p. 58-65, 15 refs, CODEN: ECJEEJ, ISSN: 8756-663X, USA.

Author affiliation

Owano, T., Ishizaki, T., Mater. & Components Res. Lab., Matsushita Electr. Ind. Co. Ltd., Kadoma, Japan.

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1

IP.COM SEARCH

Search terms:

Resonator AND (VCO or (voltage AND controlled AND oscillator)) AND ((high adj frequency) or (high-frequency)) AND (radar or radio)

Result # 1 Relevance: ★★★★★

LOW NOISE VOLTAGE CONTROLLED OSCILLATOR (VCO) WITH CHIP COIL

2000-01-01

IPCOM000009692D

English (United States)

The proposal relates to an improved VCO circuit operating, for example, in the ultra high frequency (UHF) band. Such VCOs are used in radios where certain operating parameters are required (e.g., maximum phase noise -124 dBc in 1 Hz, frequency offset 25 kHz, ...